The claims:

1. Silica-filled rubber granules wherein the granules are comprised of dried granules of a cocoagulation product of rubber and silica having an average particle diameter (D50) in terms of the sieve analysis of 300～3000 μm and a weight ratio of the granules within the range of D50±(D50× 0.5) is at least 50% by weight.

2. Silica-filled rubber granules according to claim 1, wherein a weight ratio of the granules within the range of D50±(D50× 0.5) is at least 80% by weight and the particle is approximately spherical.

3. Cross-linked rubber obtained by cross-linking the silica-filled rubber granules according to claim 1 or 2.

4. A process for producing silica-filled rubber granules which comprises supplying a cake of a cocoagulation product of silica and rubber having a water content of 40 ～80% by weight to a drier provided with an indirect-heating type container equipped with stirring wing blades, stirring the cake while applying shearing force to the cake with the stirring wing blades, and then drying the cake.

5. A process for producing silica-filled rubber granules according to claim 4, wherein the cake is divided and fed to the drier.

6. A process for producing silica-filled rubber granules according to claim 4 or 5, wherein the clearance (t) between the stirring wing blades and the wall of the container is adjusted to 2～50 mm.